Thermochimica Acta, 229 (1993) 323
Elsevier Science Publishers B.V., Amsterdam

AUTHOR INDEX

Anderson, H. 229, 235
Arnold, M. 289

Bach, F. 133
Bader, R.G. 85
Bohmhammel, K. 205
Burkhardt, G. 193

Cammenga, H.K. 15, 53, 253

Dehne, H. 299

Eckardt, N. 281

Flammersheim, H.J. 281

Gnoth, M. 299
Grolier, J.-P.E. 271

Hartmann, H. 229
Heintz, A. 243
Heinze, C. 311
Heldt, N. 235
Höhne, G.W.H. 27, 37, 85, 289
Hüttl, R. 205

Inglese, A. 271

Kallerhoff, M. 147
Karnebogen, M. 147
Keller, M. 243
Koch, E. 321
Koy, U. 299
Krauss, A. 125
Kuhn, H.-J. 133

Lamprecht, I. 173, 181
Lichtenthaler, R.N. 243
Löwen, B. 111

Marison, I.W. 157
Meier, U. 111
Moratzky, T. 193
Motzkus, Ch. 181

Opfermann, J. 281

Pfestorf, R. 119
Poeßnecker, W. 97
Pritzkat, K. 205

Reußner, J. 289
Richardson, M.J. 1
Ringert, R.-H. 147
Roos, M. 125

Schawe, J.E.K. 27, 37, 69, 85
Schick, C. 37, 299
Schmolz, E. 173
Schricker, B. 173
Schulz, S. 111
Schunck, O. 133
Seidel, J. 257
Singer, D. 133, 147
Steer, A.G. 15
Steppuhn, I.D. 253

Ulbrich, U. 53
Utschick, H. 119, 289

Vogel, J. 311
von Stockar, U. 157

Wegener, G. 193
Wegner, T. 289
Welge, G. 181
Weyel, W. 193
Wiedemann, H.G. 215
Wilhelm, E. 271
Wolf, G. 205

Thermochimica Acta, 229 (1993) 325–330
Elsevier Science Publishers B.V., Amsterdam

SUBJECT INDEX

Accuracy
Various applications of the new solution calorimeter ACTRON 4.2 229
Adiabatic
Heat losses which cannot be compensated for and their contribution to the temperature dependence of caloric measuring errors in dynamic differential calorimeters 97
Problems associated with using thermal measurement principles in enzymatic reactions 205
Adsorption
Application of calorimetric methods to the adsorption of surfactants from solution 257
Aerobic
The definition of energetic growth efficiencies for aerobic and anaerobic microbial growth and their determination by calorimetry and by other means 157
Allometry
Body size allometry of mammalian blood heat output as assessed by microcalorimetry 133
Amorphous
Glass transition in semicrystalline systems 299
Anaerobic
The definition of energetic growth efficiencies for aerobic and anaerobic microbial growth and their determination by calorimetry and by other means 157
Anoxia
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193
Atmosphere
Problems associated with using thermal measurement principles in enzymatic reactions 205
Thermal analysis of the wood components in relation to the growth period of a tree 215

Bacteria
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181
Binary system
Excess enthalpies of binary mixtures of cycloheptane or cyclooctane with benzene or toluene or ethylbenzene at 298.15 K 271
Biological calorimetry
Body size allometry of mammalian blood heat output as assessed by microcalorimetry 133
Microcalorimetric investigations on isolated tumorous and non-tumorous tissue samples 147
The definition of energetic growth efficiencies for aerobic and anaerobic microbial growth and their determination by calorimetry and by other means 157
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193
Blood
Body size allometry of mammalian blood heat output as assessed by microcalorimetry 133
Bomb calorimetry
Bomb calorimetry — contributions of the 1960s from East Germany 119
Butadiene
DSC measurements on butadiene/ethene/α-olefin terpolymers 289

Calibration
Experimental investigations on factors influencing the calibration of heat flux calorimeters 15
Calorimeter
Experimental investigations on factors influencing the calibration of heat flux calorimeters 15
Heat losses which cannot be compensated for and their contribution to the temperature dependence of caloric measuring errors in dynamic differential calorimeters 97

Heat capacity measurement of bulk or inhomogeneous materials 111
The heat defect in the water absorbed dose calorimeter 125
Various applications of the new solution calorimeter ACTRON 4.2 229
Excess enthalpies of binary mixtures of cycloheptane or cyclooctane with benzene or toluene or ethylbenzene at 298.15 K 271

Calorimetry
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1
Bomb calorimetry — contributions of the 1960s from East Germany 119
The definition of energetic growth efficiencies for aerobic and anaerobic microbial growth and their determination by calorimetry and by other means 157
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193
Investigations of the progress of an organic chemical reaction by precision calorimetry. Part 2 235
Application of calorimetric methods to the adsorption of surfactants from solution 257
Glass transition in semicrystalline systems 299

Catabolism
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181

Catalyst
DSC measurements on butadiene/ethene/α-olefin terpolymers 289

Cellulose
Thermal analysis of the wood components in relation to the growth period of a tree 215

Copolymer
DSC measurements on butadiene/ethene/α-olefin terpolymers 289

Cross link
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311

Crystallinity
Glass transition in semicrystalline systems 299
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311

Crystallization
DSC measurements on butadiene/ethene/α-olefin terpolymers 289

Deconvolution
Kopplung kalorimetrischer mit optischen Methoden und deren Anwendung zur Entschmierung von DSC-Kurven 53

Desmearing
Dynamic behaviour of power compensated differential scanning calorimeters. Part 2. The signal flow 37

Desorption
Application of calorimetric methods to the adsorption of surfactants from solution 257

Diisocyanate
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281

Dimer
Investigations of the progress of an organic chemical reaction by precision calorimetry. Part 2 235

Dithiol
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281

DSC
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1
Experimental investigations on factors influencing the calibration of heat flux calorimeters 15
Dynamic behaviour of power compensated differential scanning calorimeters. Part 1. DSC as a linear system 27
Dynamic behaviour of power compensated differential scanning calorimeters. Part 2. The signal flow 37
Kopplung kalorimetrischer mit optischen Methoden und deren Anwendung zur Entschmierung von DSC-Kurven 53
A new method of purity determination from the shape of fusion peaks of eutectic systems 85
Thermal analysis of the wood components in relation to the growth period of a tree 215
Polymorphic status of sorbitol: solution calorimetry versus DSC 253
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281

The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311

DTG
Thermal analysis of the wood components in relation to the growth period of a tree 215

Dynamic calorimetry
A new method to estimate transition temperatures and heats by peak form analysis 69

Entropy
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1

Enzyme
Problems associated with using thermal measurement principles in enzymatic reactions 205

Equipment
Dynamic behaviour of power compensated differential scanning calorimeters. Part 1. DSC as a linear system 27
The heat defect in the water absorbed dose calorimeter 125
Various applications of the new solution calorimeter ACTRON 4.2 229

Eutectic
A new method of purity determination from the shape of fusion peaks of eutectic systems 85

Excess molar enthalpy
Excess enthalpies of binary mixtures of cycloheptane or cyclooctane with benzene or toluene or ethylbenzene at 298.15 K 271

Fuzzy set
Approximative methods for the interpretation of thermokinetic measuring curves with a view to "fuzzy technology" 321

GEFTA
Experimental investigations on factors influencing the calibration of heat flux calorimeters 15

Gel
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311

Gibbs energy
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1

Glass transition
Glass transition in semicrystalline systems 299

Green's function
Dynamic behaviour of power compensated differential scanning calorimeters. Part 1. DSC as a linear system 27
Dynamic behaviour of power compensated differential scanning calorimeters. Part 2. The signal flow 37

HDPE
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311

Heat defect
The heat defect in the water absorbed dose calorimeter 125

Heat capacity
A new method to estimate transition temperatures and heats by peak form analysis 69
Heat capacity measurement of bulk or inhomogeneous materials 111

Heat of dilution
Enthalpies of dilution of polyelectrolyte solutions and exchange enthalpies of polyelectrolyte counterions 243

Heat of exchange
Enthalpies of dilution of polyelectrolyte solutions and exchange enthalpies of polyelectrolyte counterions 243

Heat of fusion
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1
Polymorphic status of sorbitol: solution calorimetry versus DSC 253

Heat of reaction
Investigations of the progress of an organic chemical reaction by precision calorimetry. Part 2 235

Heat of transition
A new method to estimate transition temperatures and heats by peak form analysis 69

Hornet
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173

Insect
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193

IRS
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281

Isomer
Bomb calorimetry — contributions of the 1960s from East Germany 119
Isoperibol
Heat losses which cannot be compensated for and their contribution to the temperature dependence of caloric measuring errors in dynamic differential calorimeters 97
Isoprene
Investigations of the progress of an organic chemical reaction by precision calorimetry. Part 2 235

Lignin
Thermal analysis of the wood components in relation to the growth period of a tree 215
Living system
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181

Malignant
Microcalorimetric investigations on isolated tumorous and non-tumorous tissue samples 147
Mechanism
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281
Metabolism
Body size allometry of mammalian blood heat output as assessed by microcalorimetry 133
Microcalorimetric investigations on isolated tumorous and non-tumorous tissue samples 147
The definition of energetic growth efficiencies for aerobic and anaerobic microbial growth and their determination by calorimetry and by other means 157
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193
Methodology
Heat capacity measurement of bulk or inhomogeneous materials 111
Microcalorimetry
Body size allometry of mammalian blood heat output as assessed by microcalorimetry 133
Microcalorimetric investigations on isolated tumorous and non-tumorous tissue samples 147
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193
Excess enthalpies of binary mixtures of cycloheptane or cyclooctane with benzene or toluene or ethylbenzene at 298.15 K 271
Model
A new method to estimate transition temperatures and heats by peak form analysis 69
Heat losses which cannot be compensated for and their contribution to the temperature dependence of caloric measuring errors in dynamic differential calorimeters 97
Bomb calorimetry — contributions of the 1960s from East Germany 119
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281

Nematic
Glass transition in semicrystalline systems 299
NMR
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281
Novel
A new method to estimate transition temperatures and heats by peak form analysis 69
A new method of purity determination from the shape of fusion peaks of eutectic systems 85
Heat capacity measurement of bulk or inhomogeneous materials 111
Various applications of the new solution calorimeter ACTRON 4.2 229

Olefin
DSC measurements on butadiene/ethene/α-olefin terpolymers 289
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311
Optical methods
Kopplung kalorimetrischer mit optischen Methoden und deren Anwendung zur Entschmierung von DSC-Kurven 53
Oxidation
Problems associated with using thermal measurement principles in enzymatic reactions 205

Paper
Enthalpies of dilution of polyelectrolyte solutions and exchange enthalpies of polyelectrolyte counterions 243
Papyrus
Thermal analysis of the wood components in relation to the growth period of a tree 215
Pattern recognition
Approximative methods for the interpretation of thermokinetic measuring curves with a view to "fuzzy technology" 321
Peroxide
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311
Phenol
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181
Polyelectrolyte
Enthalpies of dilution of polyelectrolyte solutions and exchange enthalpies of polyelectrolyte counterions 243
Polymer
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281
DSC measurements on butadiene/ethene/α-olefin terpolymers 289
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311
Polymorphism
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1
Polymorphic status of sorbitol: solution calorimetry versus DSC 253
Program
Approximative methods for the interpretation of thermokinetic measuring curves with a view to "fuzzy technology" 321
Pseudomonas
Calorimetric investigations of phenol degradation by *Pseudomonas putida* 181
Purity
A new method of purity determination from the shape of fusion peaks of eutectic systems 85

Relaxation
Glass transition in semicrystalline systems 299

Sequoia
Thermal analysis of the wood components in relation to the growth period of a tree 215
Smearing
Dynamic behaviour of power compensated differential scanning calorimeters. Part 1. DSC as a linear system 27
Sorbitol
Polymorphic status of sorbitol: solution calorimetry versus DSC 253
Surfactant
Application of calorimetric methods to the adsorption of surfactants from solution 257

TA
Approximative methods for the interpretation of thermokinetic measuring curves with a view to "fuzzy technology" 321
TAM
Heat capacity measurement of bulk or inhomogeneous materials 111
Telomerization
Investigations of the progress of an organic chemical reaction by precision calorimetry. Part 2 235
Terpolymer
DSC measurements on butadiene/ethene/α-olefin terpolymers 289
TG
Thermal analysis of the wood components in relation to the growth period of a tree 215
TGA
The application of thermoanalytical methods on the reactive processing of polyolefin compounds 311
TG–DTG
Thermal analysis of the wood components in relation to the growth period of a tree 215
Theory
Dynamic behaviour of power compensated differential scanning calorimeters. Part 1. DSC as a linear system 27
Thermodynamics
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1
Thermogenesis
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173
Thermokinetic
Approximative methods for the interpretation of thermokinetic measuring curves with a view to "fuzzy technology" 321

Thermoregulation
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173
TMA
Thermal analysis of the wood components in relation to the growth period of a tree 215
Transition
The derivation of thermodynamic properties by DSC: free energy curves and phase stability 1
Tumour
Microcalorimetric investigations on isolated tumorous and non-tumorous tissue samples 147

Unsmearing
A new method to estimate transition temperatures and heats by peak form analysis 69
UVS
The step growth polymerization of dithiols and diisocyanates. Part 1. DSC and spectroscopic investigations regarding the mechanism 281

Vertebrate
Metabolic rate and tolerance of anoxia: microcalorimetric and biochemical studies on vertebrates and insects 193
Vespa
Calorimetric investigations on social thermogenesis in the hornet *Vespa crabro* L. (Hymenoptera: Vespinae) 173

Water absorbed dose calorimeter
The heat defect in the water absorbed dose calorimeter 125
Wood
Thermal analysis of the wood components in relation to the growth period of a tree 215

Yeast
The definition of energetic growth efficiencies for aerobic and anaerobic microbial growth and their determination by calorimetry and by other means 157